BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

*Name of Work: **Modified Estimate for Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).***

Job Code: 014-23-000010

Estimated Cost:	***Rs. 55.00 Lakhs***
Approved Cost:	***Rs. 40.08 Lakhs***
Modified Cost:	***Rs. 40.07 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Modified Estiamte for Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).

Estimation Cost.Rs 4007466.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)**	Cum							
	New Drain								
	10th Cross 6th Block HMT Layout N/S		1	70.00	1.00	1.00	70.00		
	10th Cross 6th Block HMT Layout S/S		1	53.00	1.00	1.00	53.00		
			1	26.00	1.00	1.00	26.00		
	7th Main 6th Block HMT Layout W/S		1	67.00	1.00	1.00	67.00		
			1	35.00	1.00	1.00	35.00		
			1	36.00	1.00	1.00	36.00		
	7th Main 6th Block HMT Layout E/S		1	142.55	1.00	1.00	142.55		
	Narasipura 2nd Phase		1	113.50	1.20	1.20	163.44		
	Culverts								
	HMT Layout 7th Main Road		1	7.50	1.80	1.20	16.20		
			1	8.00	1.80	1.20	17.28		
			1	7.80	1.80	1.20	16.85		
	10th Cross		1	7.50	1.80	1.20	16.20		
			1	7.30	1.80	1.20	15.77		
	5th A Cross		1	6.60	1.80	1.20	14.26		
	5th B Cross		1	7.20	1.80	1.20	15.55		
	Total						**705.09**	175.96	**124068.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)**	Cum							
	New Drain								
	10th Cross 6th Block HMT Layout N/S		1	70.00	1.00	0.15	10.50		
	10th Cross 6th Block HMT Layout S/S		1	53.00	1.00	0.15	7.95		
			1	26.00	1.00	0.15	3.90		
	7th Main 6th Block HMT Layout W/S		1	67.00	1.00	0.15	10.05		
			1	35.00	1.00	0.15	5.25		
			1	36.00	1.00	0.15	5.40		
	7th Main 6th Block HMT Layout E/S		1	142.54	1.00	0.15	21.38		
	Narasipura 2nd Phase		1	113.50	1.20	0.15	20.43		
	Culverts								
	HMT Layout 7th Main Road		1	7.50	1.80	0.15	2.03		
			1	8.00	1.80	0.15	2.16		
			1	7.80	1.80	0.15	2.11		
	10th Cross		1	7.50	1.80	0.15	2.03		
			1	7.30	1.80	0.15	1.97		
	5th A Cross		1	6.60	1.80	0.15	1.78		
	5th B Cross		1	7.20	1.80	0.15	1.94		
	Total						**98.87**	5254.08	**519492.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement &	Cum							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	New Drain								
	Raft								
	10th Cross 6th Block HMT Layout N/S		1	70.00	1.00	0.15	10.50		
	10th Cross 6th Block HMT Layout S/S		1	53.00	1.00	0.15	7.95		
			1	26.00	1.00	0.15	3.90		
	7th Main 6th Block HMT Layout W/S		1	67.00	1.00	0.15	10.05		
			1	35.00	1.00	0.15	5.25		
			1	36.00	1.00	0.15	5.40		
	7th Main 6th Block HMT Layout E/S		1	142.54	1.00	0.15	21.38		
	Narasipura 2nd Phase		1	113.50	1.20	0.15	20.43		
	Side Wall								
	10th Cross 6th Block HMT Layout N/S		2	70.00	0.15	0.61	12.85		
	10th Cross 6th Block HMT Layout S/S		2	53.00	0.15	0.60	9.54		
			2	26.00	0.15	0.60	4.68		
	7th Main 6th Block HMT Layout W/S		2	67.00	0.15	0.60	12.06		
			2	35.00	0.15	0.60	6.30		
			2	36.00	0.15	0.60	6.48		
	7th Main 6th Block HMT Layout E/S		2	142.54	0.15	0.60	25.66		
	Narasipura 2nd Phase		2	113.50	0.15	0.90	30.65		
	Total						**193.08**	5928.01	**1144552.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol - III Pg 99 item no 13.1)**								
	For Drain	Cum					193.08		
		kg	Steel assumed 60Kg/Cum of Concrete				0.060		
		tonne					**11.58**	87192.82	**1010086.00**
5	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **10cm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete. **(Approved Data Rate)**	Sqm							
	Covering Slab								
	10th Cross 6th Block HMT Layout N/S		1	34.50	0.90		31.05		
	10th Cross 6th Block HMT Layout S/S		1	55.00	0.90		49.50		
			1	26.00	0.90		23.40		
	7th Main 6th Block HMT Layout W/S		1	63.00	0.90		56.70		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
	7th Main 6th Block HMT Layout E/S Narasipura 2nd Phase		1	20.00	0.90		18.00		
			185	0.60	1.20		133.20		
							365.85	1781.92	**651915.00**
6	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)**	Cum							
	Qty Vide 90% of Item No- (1)						705.09		
	Total						**705.09**	70.00	**49357.00**
7	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)**	T.Km							
	Qty frm Item No-06			705.09	1.28		902.51		
	Total						**902.51**	99.33	**89646.00**
	EIRL								
E1	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22**	Cum							
	New Culvert								
	1st Course								
	HMT Layout 7th Main Road		2	7.50	0.60	0.45	4.05		
			2	8.00	0.60	0.45	4.32		
			2	7.80	0.60	0.45	4.21		
	10th Cross Road		2	7.50	0.60	0.45	4.05		
			2	7.30	0.60	0.45	3.94		
	2nd Course								
	HMT Layout 7th Main Road		2	7.50	0.45	0.45	3.04		
			2	8.00	0.45	0.45	3.24		
			2	7.80	0.45	0.45	3.16		
	10th Cross Road		2	7.50	0.45	0.45	3.04		
			2	7.30	0.45	0.45	2.96		
	5th A Cross		2	6.60	0.45	0.50	2.97		
	5th B Cross		2	7.20	0.45	0.45	2.91		
	Basic rate Issued Rate 04-01-2023	5352.00							
	Area weightage 10%	535.20							
	Sub Total	5887.20							
	Tender Premium @ Rs.-14.00	-824.21							
	Total	5062.99							
							41.88	5062.99	**212058.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
E2	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification. **Item No. 21.10 Page No. 190, Vol - II PWD SR 2021-22**	Sqm							
	Pointing								
	HMT Layout 7th Main Road		2	7.50		0.90	13.50		
			2	8.00		0.90	14.40		
			2	7.80		0.90	14.04		
	10th Cross Road		2	7.50		0.90	13.50		
			2	7.30		0.90	13.14		
	5th A Cross		2	6.60		0.90	11.88		
	5th B Cross		2	7.20		0.90	12.96		
	Basic rate	238.00							
	Area weightage 10%	23.80							
	Sub Total	261.80							
	Tender Premium @ Rs.-14.00	-36.65							
	Total	225.15							
	Total						**93.42**	225.15	**21033.00**
E3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4))**	Cum							
	Culvert Coping								
	HMT Layout 7th Main Road		1	6.80	1.50	0.10	1.02		
			1	7.50	1.50	0.10	1.13		
			1	7.50	1.50	0.10	1.13		
			1	8.00	1.50	0.10	1.20		
	Ramp								
	HMT Layout 7th Main Road		2	6.80	0.60	0.10	0.82		
			2	7.50	0.60	0.10	0.90		
			2	7.50	0.60	0.10	0.90		

No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Issued Rate 04-01-2023 Basic rate		2	8.00	0.60	0.10	0.96		
	Area weightage 10%	5728.00							
	Sub Total	572.80							
	Tender Premium @ Rs.-14.00	6300.80							
	Total	-882.11							
	Total	5418.69							
							8.05	5418.69	**43599.00**
4	Providing and Fixing pre cast Covering Slab 230 mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge	Sqm							
	For Culvert								
	HMT Layout 7th Main Road		1	6.80	1.50		10.20		
			2	7.50	1.50		22.50		
	Data rate	5037.00							
	Tender Premium @ Rs.-14.00	-705.18							
	Total	4331.82							
	Total						**32.70**	4331.82	**141651.00**
								Grand Total	**4007466.00**

Rupees Forty Lakh(s) Seven Thousand Four Hundred Sixty Six Only

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Executive Engineer
Byatarayanapura Division

Technical Sanction
Accorded For Rs. 4007466/-
Head of A/C. 03226
CER NO : 88 Dt: 4/ 03/ 23

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